```python

from a0_items import *
import schedule

import time

from datetime import date


#https://plainenglish.io/blog/5-ways-to-schedule-jobs-in-python-99de8a80f28e

def task_1():

   print ("starting")

   for x in range (5):

      now = datetime.now()

      print (now, flush=True)
      time.sleep(3)







def run_task_LOOP (time_pause, run_count):

   for x in range (run_count):

      task ()

      time.sleep(time_pause)


#run_task_LOOP (time_pause = 5, run_count = 5)



# https://schedule.readthedocs.io/en/stable/
def run_task_EVERY (run_every, time_value, end_datetime, task):

   match run_every:

      case "s":
         print ("run task every " + str(time_value) + " SECONDS")

         task_schedule=schedule.every(time_value).seconds.until(end_datetime).do(task)

         while True:
            schedule.run_pending()
            time.sleep(1)

      case "m":
         print ("run task every " + str(time_value) + " MINUTES")

         task_schedule=schedule.every(time_value).minutes.until(end_datetime).do(task)

         while True:
            schedule.run_pending()
            time.sleep(1)

      case "h":
         print ("run task every " + str(time_value) + " HOURS")

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            task_schedule=schedule.every(time_value).hours.until(end_datetime).do(task)

            while True:
                schedule.run_pending()
                time.sleep(1)

        case "d":
            print ("run task every " + str(time_value) + " DAYS")

            task_schedule=schedule.every(time_value).days.until(end_datetime).do(task)

            while True:
                schedule.run_pending()
                time.sleep(1)

        case "w":
            print ("run task every " + str(time_value) + " WEEKS")

            task_schedule=schedule.every(time_value).weeks.until(end_datetime).do(task)

            while True:
                schedule.run_pending()
                time.sleep(1)


run_task_EVERY (run_every= 's', time_value= 3, end_datetime="2024-10-10 15:08", task = task_1)




def run_task_EVERY_WEEKDAY_AT (run_every, time_value, task):


    match run_every:

        case "mon":
            print ("run task every MONDAY")

            schedule.every().monday.at(time_value).do(task)

            while True:
                schedule.run_pending()
                time.sleep(1)

        case "tues":
            print ("run task every TUESDAY")

            schedule.every().tuesday.at(time_value).do(task)

            while True:
                schedule.run_pending()
                time.sleep(1)

        case "wedn":
            print ("run task every WEDNESDAY")

            schedule.every().wednesday.at(time_value).do(task)

            while True:
                schedule.run_pending()
                time.sleep(1)

        case "thurs":
            print ("run task every THURSDAY")

            schedule.every().thursday.at(time_value).do(task)
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134
135             while True:
136                 schedule.run_pending()
137                 time.sleep(1)
138
139         case "fri":
140             print ("run task every FRIDAY")
141
142             schedule.every().friday.at(time_value).do(task)
143
144             while True:
145                 schedule.run_pending()
146                 time.sleep(1)
147
148
149         case "sat":
150             print ("run task every sATURDAY")
151
152             schedule.every().saturday.at(time_value).do(task)
153
154             while True:
155                 schedule.run_pending()
156                 time.sleep(1)
157
158         case "sun":
159             print ("run task every SUNDAY")
160
161             schedule.every().sunday.at(time_value).do(task)
162
163             while True:
164                 schedule.run_pending()
165                 time.sleep(1)
166
167
168     #run_task_EVERY_WEEKDAY_AT (run_every="mon", time_value="13:30", task=task_1)
```